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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,578	11/21/2003	Tao-Tsung Shun	3313-1060P	9392
2292	7590 04/18/2006		EXAMINER	
	WART KOLASCH & BI	SMITH, NICHOLAS A		
PO BOX 747 FALLS CHUF	RCH, VA 22040-0747	ART UNIT	PAPER NUMBER	
	•		1742	
			DATE MAILED: 04/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/717,578	SHUN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nicholas A. Smith	1742				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07 F</u>	ebruary 2006.					
2a)⊠ This action is FINAL . 2b)☐ Thi	·					
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closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in a conty documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage				
••• • • • • •						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of 6) Other:	Informal Patent Application (PTO-152)				

DETAILED ACTION

Status of Rejection

The 35 U.S.C. 103(a) rejections to claims 1-4 based on Japanese patent 358042750, Ueta et al. (US Patent 951,789) or Sundstrom et al. (6,485,679) have been withdrawn in view of the amendment in claim 1.

Status of Claims

Claims 1-4 remain for examination. Claims 5-7 have been cancelled.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no literal support in the specification to amend claimed range of 5-35% Al to 25-35% Al in claim 1.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the English abstract of Japanese patent 411071658 or Japanese patent 358153752.

JP'658 or JP'752 is applied to the claims for the same reasons as stated in paragraph 4 in the previous office action.

In regards to the amended feature of 25-35% Al in claim 1, the English abstract of JP'658 or JP'752 each discloses a multi-component alloy with constituents whose atomic% ranges including Al atomic% ranges overlap those recited by the claims. Such overlap establishes a prima facie case of obviousness, see MPEP 2144.05. It would have been obvious to one of ordinary skill in the art at the time of invention to select the claimed 25-35% Al range out of the broader 10-35% Al range as disclosed by JP'658 (abstract) or the range 5-25% Al as disclosed by JP'752 (abstract) since JP'658 or JP'752 teaches the alloy has same properties over the whole range.

Response to Arguments

Applicant's arguments filed 2/7/2006 have been fully considered but they are not persuasive in view of JP'658 and JP'752. In view of the amendment, applicant's arguments in view of JP'750, Ueta et al. and Sundstrom et al. are persuasive.

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Applicant argues:

1. Claim 1 would reads with same wt% ranges as atomic % ranges for Fe, Co, Ni,

Cr and Cu, while f wt% Al would be $12.5 \le f \le 17.5$.

2. JP'658 does not disclose Cr and Cu.

3. JP'752 restrains Co to lower than 3 at%.

4. JP'750 restrains AI to lower than 5 wt% and Cu to lower than 10 wt%.

5. Ueta et al. does not include Al, 0.1-5 wt% Cu and Co <5 wt%.

6. Sundstrom et al. does not include Co nor Cu, and Al <0.05% wt%.

7. Because of the differences in compositions mentioned above, applicant alleges

his invention is a multi-component alloy with good high-temperature mechanical

properties.

Examiner responds:

1. There is no simple conversion of ranges in claim 1 from atomic % to wt %. A

change in a element's composition necessitates a change in both the numerator

(individual component) and denominator (total). Thus, one must take a specific

set of wt % of metals used in the alloy and convert them to atomic % to comply

with limitations set in claim 1. However, the applicant is correct to surmise that Al

has generally half the atomic weight in regards to the atomic weight of the other

constituents.

2. JP'658 does disclose Cr and Cu at ≤10 at% in the English abstract, thus

overlapping claim 1.

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 JP'752 does disclose Co ≥ 3 wt% in the English abstract, well within the claimed range.

- 4-6. The applicant's arguments (4)-(6) are moot in view of the withdrawal of the rejections based on JP'750, Ueta et al. or Sundstrom et al.
 - 7. Given the overlap found in the prior art (i.e. JP'658 or JP'752) with respect to the amended claim 1 stated above, the rejections based on JP'658 or JP'752 should be maintained.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas A. Smith whose telephone number is (571)-272-8760. The examiner can normally be reached on 8:30 AM to 5:00 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571)-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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